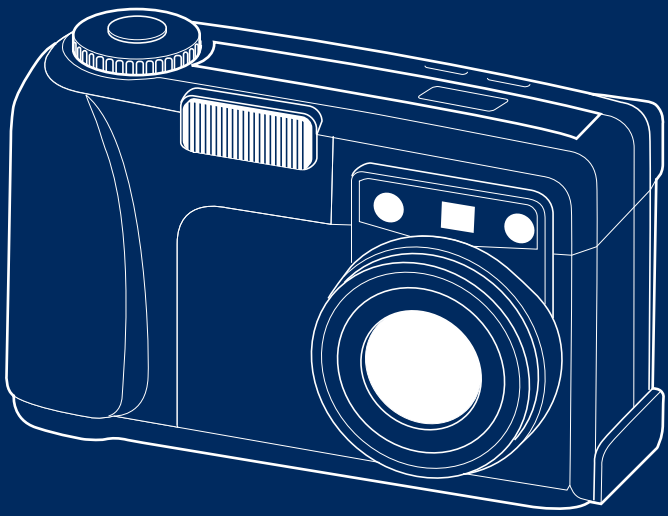
SAMSUNG CAMERA

User Manual

Digital Camera

Digimax 220 SE

Thank you for buying a Samsung Camera. This manual will guide you through using the Digimax 220 SE, including taking pictures, downloading images and using Adobe PhotoDeluxe software.
Please read this manual before using your new camera.



ENGLISH

SPECIAL FEATURES

Thank you for buying a Samsung Digital Camera.

This digital camera possesses the following features.

- ▶ A high resolution of 2.1 mega pixels
- ▶ A 3 x optical and 2 x digital zoom lens
- ▶ Moving image function
- ▶ Date/time printing on still images
- ▶ A USB interface function with Storage Driver
- ▶ 1.8 inch TFT LCD monitor

A FCC warning

- This device has been tested in accordance with the limits of a class B digital device under item 15 of the FCC rules. These limits are designed to provide protection against harmful interference in commercial installation.
  This equipment generates, absorbs and can emit radio frequency energy. If it is not installed and used in accordance with the instructions, it may cause harmful interference to radio communication.
  There is however, no guarantee that interference will not occur in a some situations.
  Should any interference occur when this device is in operation, please try one or more of the following measures.
  - ■ Change the location and direction of any aerial.
  - ■ Increase distance between camera and affected device.
  - ■ Use a different socket away from the affected device.
  - ■ Please contact a Samsung agent or a radio/TV engineer.
- This device complies with part 15 of the FCC Rules.

MANUFACTURE'S CONTENTS

MANUFACTURE'S CONTENTS

Please check that you have the correct contents before using this product.

Digital camera

CompactFlash card (CF CARD)

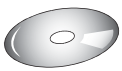
4 AA Alkaline Batteries

Pouch

Video cable

USB cable

Application S/W, Driver CD-ROM



User manual

Product warranty

Lens cap

Lens cap retaining cord

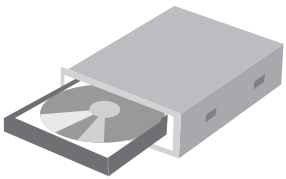
Camera strap

Accessories (Optional)

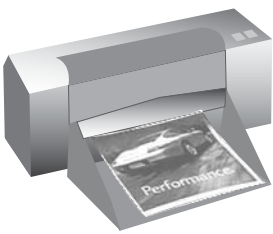
AC Adapter (optional)

THIS DIGITAL CAMERA CAN BE USED FOR

Viewing images on TV



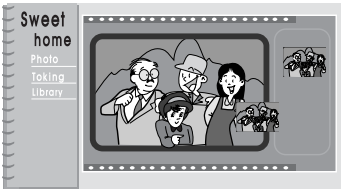
Recording images onto CD



Printing images

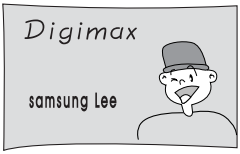
Editing images
on a PC

THIS DIGITAL CAMERA CAN BE USED FOR

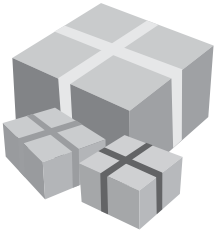


Creation of
a digital photo album

Inserting images
directly into any
electronic document



Taking a self-portrait
and using the image
to personalize name
cards



You can even create your own
unique gift-wrap paper by using
your digital images.

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GETTING TO KNOW YOUR CAMERA

- Prior to using this camera, please read the user manual thoroughly.
- Keep the manual in a safe place.

About the image mark

This manual contains instructions on using this camera that will help you to use this camera safely and correctly. This will help prevent danger and injury to others.

Warning

This is a descriptive statement warning of the result if the instructions are ignored or not understood.

Note

This explains use of the camera, please refer to this.

Reference

This should assist further in the operation of the camera.

SAFETY NOTE

⚠ WARNING

■ Do not attempt to modify this camera in any way. This may result in fire, injury, electric shock or severe damage to you or your camera. Internal inspection, maintenance and repairs should be carried out by your dealer or Samsung Camera Service Center.

■ Do not use the flash in close proximity to the people or animals.
Positioning the flash too close to your subject's eyes, may cause eyesight damage.
Do not attempt to photograph children using a flash, closer than a 1 meter proximity.

■ When taking photographs, never point the lens of the camera directly into very strong light. This may result in permanent damage to the camera or your eyesight.

■ Please do not use this product in close proximity to flammable or explosive gases, as this could increase the risk of explosion.

■ For safety reasons keep this product and accessories out of reach of children or animals to prevent accidents e.g.:
- Swallowing batteries or small camera accessories.
  In case of accidents, please consult a doctor immediately.
- There is a risk of permanent eye damage if the flash is operated at a distance of less than one meter from a person's eyes.
- There is a possibility of injury from the camera's moving parts.

■ Should any form of liquid enter the camera, do not use it. Switch off the camera, and then disconnect the power source (batteries or AC Power Adapter).
You must contact your dealer or Samsung Camera Service Center.
Do not continue to use the camera as this may cause a fire or electric shock.

■ Turn the camera off immediately, then disconnect the power source (batteries or AC Power Adapter).
Then contact your dealer or Samsung Camera Service Center.
Do not continue to use the camera as this may cause a fire or electric shock.

■ Do not insert or drop metallic or inflammable foreign objects into the camera through access points e.g. CF CARD slot and battery chamber. This may cause a fire or electric shock.

■ Do not operate this camera with wet hands.
This could pose a risk of electric shock.

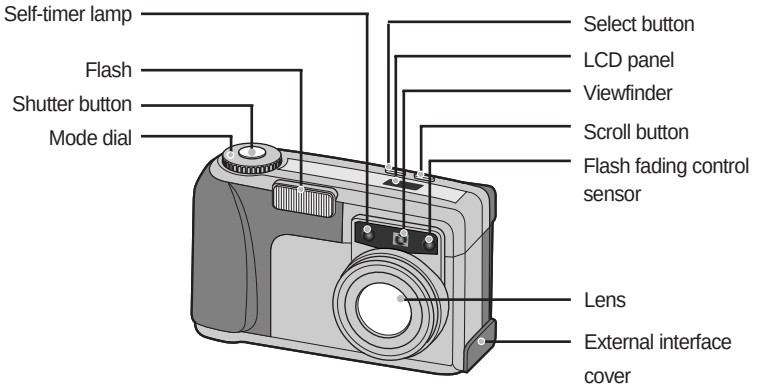
SAFETY NOTE

NOTE

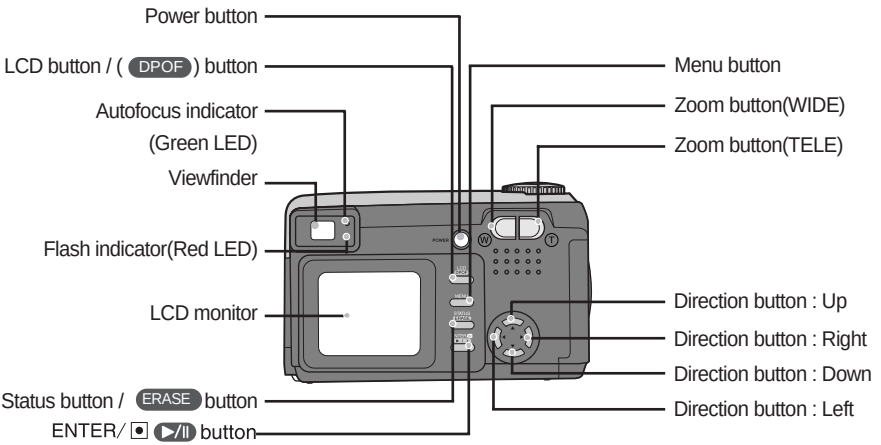
- Do not leave this camera in places subject to extremely high temperatures, such as a sealed vehicle, direct sunlight or other places of extreme variances in temperature. Exposure to extreme temperatures may adversely affect the camera's internal components and could cause a fire.
- When in use, do not cover the camera or AC Power Adapter. This may cause heat to build up and distort the camera case or cause a fire.
- Always use the camera and its accessories in a well-ventilated area. Leakage, overheating, or burst batteries could result in fire or injury. Do not short circuit, heat or dispose of batteries in fire. Do not use old batteries with new ones, or mix brands of batteries. Ensure the batteries are positioned correctly with regard to polarity (+ / -).
- When the camera is not in use for long periods, always unplug the camera from its power source (batteries or AC Power Adapter) for safety purposes. Leaking batteries can cause fire and pollution to the environment.
- Allowing dust to accumulate in the camera over a long period is hazardous as extreme circumstances may cause a fire. It is best to clean your camera prior to seasonal periods of high humidity. Consult your dealer or Samsung Camera Service Center for information on the cost of cleaning your camera.
- Do not move the camera while it is switched on, if you are using the AC Power Adapter. After use, always switch off the camera before unplugging the adapter from the AC Power wall socket. Then make sure that any connector cords or cables to other devices are disconnected before moving the camera. Failure to do so may damage the cords or cables and cause a fire or electric shock.

IDENTIFICATION OF FEATURES

Product Exterior (Front)

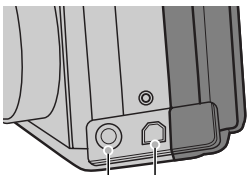


Product Exterior (Rear)



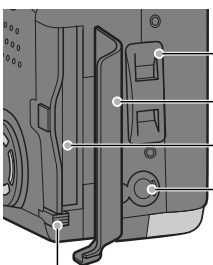
IDENTIFICATION OF FEATURES

Product Exterior(Side/Bottom)



USB connection terminal

Video connection terminal



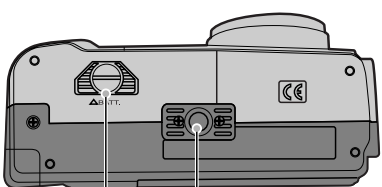
Strap eyelet

Card cover

Memory card slot

DC input connection point

Card eject lever

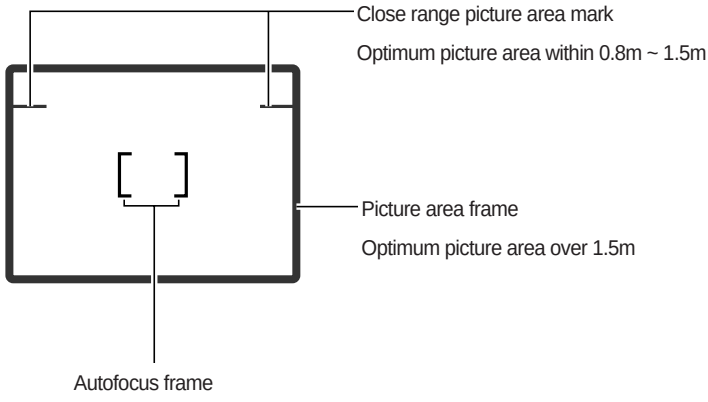


Tripod socket

Battery chamber cover

IDENTIFICATION OF FEATURES

Viewfinder


Close range picture area mark
Optimum picture area within 0.8m ~ 1.5m
Picture area frame
Optimum picture area over 1.5m
Autofocus frame

Reference

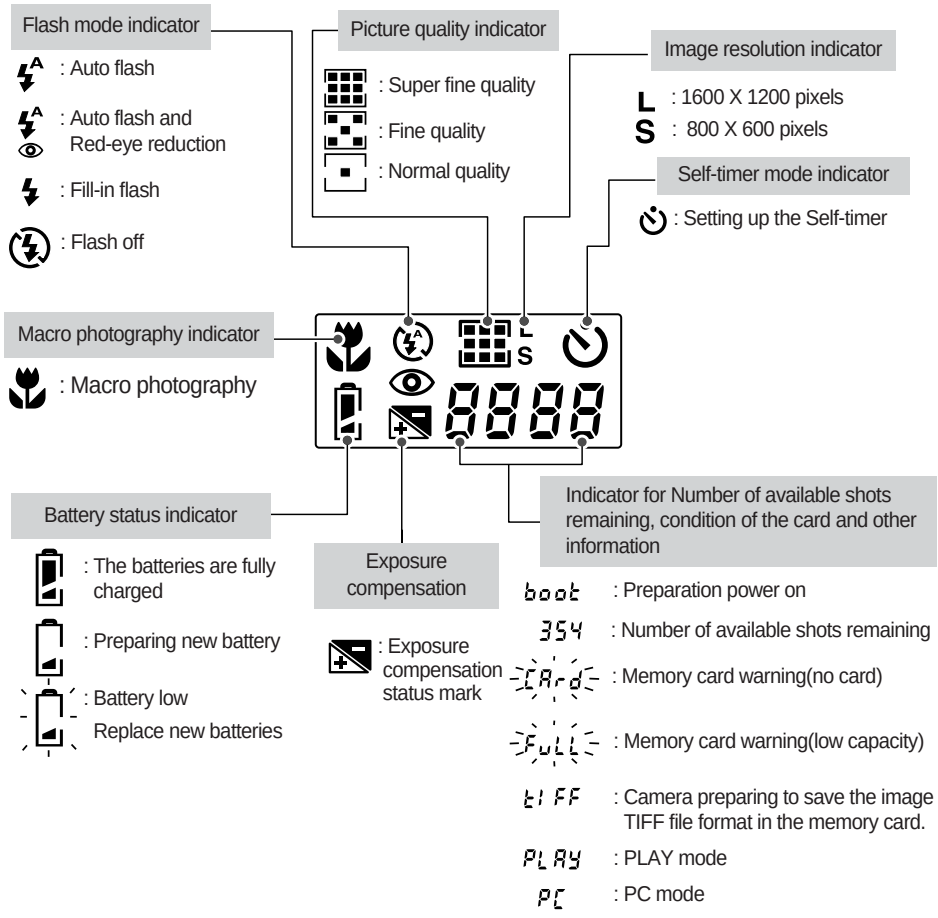
Vertical and Horizontal shots are taken in the same way

Note

- Please use the LCD monitor when using Macro mode (0.2~0.8m).
- As there can be some differences between what is seen through the Viewfinder and the resulting image when taken at a range closer than 1.5m, it is recommended that you use the LCD monitor to compose the shot.

IDENTIFICATION OF FEATURES

LCD panel indicator


Flash mode indicator
: Auto flash
: Auto flash and Red-eye reduction
: Fill-in flash
: Flash off
Picture quality indicator
: Super fine quality
: Fine quality
: Normal quality
Image resolution indicator
L : 1600 X 1200 pixels
S : 800 X 600 pixels
Self-timer mode indicator
: Setting up the Self-timer
Macro photography indicator
: Macro photography
Battery status indicator
: The batteries are fully charged
: Preparing new battery
: Battery low
Replace new batteries
Exposure compensation
: Exposure compensation status mark
Indicator for Number of available shots remaining, condition of the card and other information
book : Preparation power on
354 : Number of available shots remaining
CArd : Memory card warning(no card)
FuLL : Memory card warning(low capacity)
bIFF : Camera preparing to save the image in TIFF file format in the memory card.
PLAY : PLAY mode
PC : PC mode

IDENTIFICATION OF FEATURES

LCD monitor symbol

Symbol for shot mode (Macro / Normal)

【Status display 】

Press the STATUS button on shot mode.

Digital zoom

Number of available shots remaining

Shot mode

Macro( )

Normal(No symbol)

Date and Time

Status indicating block

Formatting Capture

Single shot( )

Continuous shot( )

Interval shot(INT.)

Moving image shot( )

White balance

Auto(AWB)

Sunlight( )

Fluorescent light( )

Tungsten lamp( )

Flash

Auto flash( )

Auto flash and Red-eye reduction( )

Fill-in Flash( )

Flash off( )

Quality and Resolution

Super fine quality( )

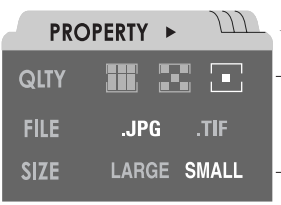
Fine quality( )

Normal quality( )

LARGE(L)SMALL(S)

【First frame displayed】

Press the MENU button on shot mode.



Function block

Function detail items

IDENTIFICATION OF FEATURES

Play mode (▶) symbol

【First frame displayed】

Formatting Capture

Moving image

Order of files stored on the memory card

When you select the play mode, the last image captured is displayed.

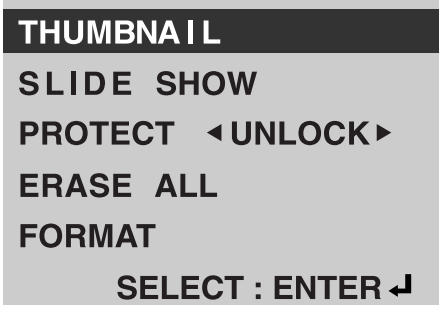
Shot image

Lock

This is displayed when Lock has been selected

【First frame displayed】

Press the Menu button on play mode.



READY

Connecting to Power

There are two ways in which to provide the camera with power.

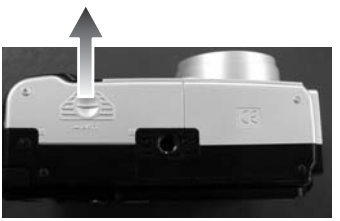
One is using batteries (AA Alkaline), alternatively use an AC Adapter (DC 6V / 1.5A).

Using the batteries

1 Open the battery chamber cover by pushing in the direction of the arrow.

2 Insert the batteries taking note of the polarity (+ / -).

3 To close the battery chamber cover, push it until it clicks.



Battery status indicator

You can check the battery life on the camera status LCD

: The batteries are fully charged

: Preparing a new battery

: There is no battery capacity. Replace with new batteries

READY

Reference

This camera will automatically switch off when not in use for a period of time.

For more information regarding auto power off, please refer to the power off section on page 52

Note

Important information about battery usage

- Please remove the batteries if the camera will not be used for long periods. Batteries can lose power over time and are prone to leak if kept inside the camera.
- Do not use manganese batteries as they cannot deliver sufficient power
- Low temperatures (below O°C) can cause the camera to work for a shorter period of time due to reduce battery performance. However the batteries will recover at normal temperatures.
- Do not combine the use of old and new batteries at the same time
- Low temperatures (below O°C) can cause the camera to work for a shorter period of time due to reduced battery performance. However the batteries will recover at normal temperatures.
- Extended use of the camera may cause the camera body to warm up. This is perfectly normal. If you are planning to use this camera for long periods of time, it is advisable to use an AC adapter.

READY

Using the AC power adapter

- If you have access to a main supply, using an AC Adapter allows the camera to be used for long periods of time. If you connect the camera to a computer, it is advisable to use an AC adapter rather than the camera' s battery, as this will enable extended use.

- Plug the adapter into the connection point (DC 6V IN) on the camera. Please ensure that you use an AC adapter with the correct specification for the camera. Failure to do so may affect your warranty.

WARNING

- Always turn off the power before taking the AC adapter out of the main supply.
- Keep the metallic part of camera or AC adapter away from any metallic material to prevent fatal damage.

READY

Attaching the strap

To prevent accidental damage to the camera, always use the strap.

Refer to the illustrations below

1

2

Attaching the lens cap

Use the retaining cord to prevent loss of the lens cap.

Refer to the illustrations below

1

2

3

After use, keep the lens cap connected to the strap

READY

Inserting CF CARD

1 Pull the card cover in the direction of the arrow to open.

2 Insert the card towards the arrow.

3 To close, push the card cover against the arrow until you hear a click.

Removing CF CARD

1 Turn the power off using the power button.(①)

2 Push the Card eject lever(②) down.

3 Remove CF CARD as shown in the picture.

READY

Instructions on how to use CF CARD

Using a new CF CARD for the first time

- Before using the CF CARD, it must be initialized.
- Initializing prepares the CF CARD for recording data.
- For more details, please refer to the page 63

Reference

- Using an 8MB compact flash memory card, the specification shooting capacity will be as follows. (This is based on the conditioning standard of our company.)

Image resolution	Recorded picture quality	File format	Number of shots
L (1600×1200	Super fine quality	.TIF	1
		.JPG	6±1
	Fine quality	.JPG	14±1
	Normal quality	.JPG	22±2
S (800×600 pixels)	Super fine quality	.TIF	5
		.JPG	28±2
	Fine quality	.JPG	59±3
	Normal quality	.JPG	87±6

- The number of normal shots can vary according to the capacity of the compact flash memory card.

READY

Note

- If used over extended periods, a CF CARD may deteriorate and its performance may be impaired. If this occurs, it is best to replace with a new CF CARD. Should this be the case, you will need to purchase a new CF CARD.
- Always turn the power off when replacing the CF CARD.

Preserving the CF CARD data

- If the card is subjected to any of the following, the recorded data may become corrupted:
  - When the CF CARD is used incorrectly.
  - If the power is switched off while initializing, reading or removing the CF CARD.
- It is advisable to copy important data onto other media as back-up e.g. floppy disks, hard disks etc.
- Samsung cannot be held responsible for lost data.

Note

Important information whilst using the CF CARD

- If you switch off this camera while it is reading, initializing or playing, the information on the memory card may be corrupted.
- The CF CARD is an electronic precision device.
  Do not bend, drop or subject the card to any heavy impact.
- Do not store the CF CARD in an environment with strong electronic or magnetic fields, e.g. near loud speakers or TV receivers.
- Please do not use or store in an environment where there are extremes of temperature.
- Do not allow the CF CARD to come into contact with dirt.
  Should this happen, clean the dirt off with a soft cloth.
- Please keep the CF CARD in its case when not in use.
- During and after periods of extended use, you may notice that the CF CARD is warm.
  This is perfectly normal.

READY

Selecting the date and time

Please select the date and time when you use the camera for the first time

1 Turn on the power by pressing the Power button.

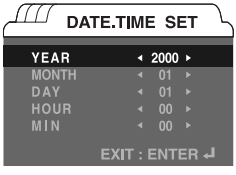
2 Set the mode dial to the shot mode. (macro / normal)

3 Press the MENU button.
When the LCD monitor is automatically turned on, the setup menu screen is displayed.

[4 direction buttons]

4 Move to the function block [SYSTEM] by using the RIGHT button(▶) among the 4 direction buttons.

5 Move to the detail function list [DATE/TIME] by using the DOWN button(▼) among the 4 direction buttons and press the ENTER button and then the next frame is displayed.



6 Select the right Date and Time by using the 4 direction buttons on the next 'selecting date and time' frame and press the ENTER button and then you go back to the setup menu screen and the [DATE/TIME] is displayed as is updated.

7 The menu mode is canceled if you press the MENU button and the setup is completed.

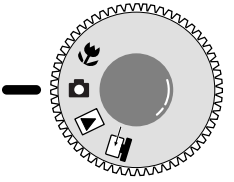
Reference

- The selection range for date/time setup covers from 2000~2050.
  (It is automatically programmed to allow for a leap year/ month)
- It is originally set as [2000/01/01 00:00]
- If 1 hour has passed where the camera did not have batteries in it, you will need to check date/time.
- Refer page 53 for more details "setting up date and time".

CAMERA WORKING MODE

Camera working mode

You can select the appropriate working mode by using the mode dial located at the top of the camera.
This digital camera has 4 working modes, these are listed below.



【 Mode dial 】

Macro shot mode ( )

This mode is used for close range photography between 0.2 m ~ 0.8 m.

The flash off ( )is set up to operate automatically but you can set the flash mode to your own preference.

Note

· When using the Macro shot, you may need to use a tripod to avoid camera shake.

Normal shot mode ( )

This mode is used for normal pictures from 0.8 m ~infinity.

In this mode, the camera uses auto exposure, auto white balance, auto focus and the images are stored on the memory card.

Play mode (: PLAY)

In this mode, the stored images on the memory card can be viewed on the LCD monitor on the back of the camera or on an external monitor using a video output terminal.

You can choose image play, 9 thumbnail screen, slide show, image protection, image deletion or memory card formatting.

PC mode (: PC)

The computer recognize the camera as Removable Disk when they are connected by USB cable. And you can transfer images between the computer and the camera

TAKING PHOTOS

Now let's take a picture.

1 **To switch on the camera, press the POWER button (①)**

- The beep is activated whenever the power is turned on.
- The indicator (boot) on the LCD panel and the condition indicator lamp(green) next to the viewfinder blink while the camera is getting ready for the operation, and they go out when the camera is ready for shots.

2 **Select the desired mode (Macro or Normal) according to picturing range by using the mode dial (②) on the top of a camera.**

- Macro ( ) : between 0.2m ~ 0.8m
- Normal ( ) : photography range 0.8m ~ infinite

Note

- You will not be able to obtain a clear shot of an object if you do not select the correct shooting mode (normal / macro) according to the distance from the object to the camera.
- Avoid obstructing the Flash fading control sensor when you take a picture. A picture can be spoiled when a finger, hair or camera strap is in front of the Flash fading control sensor.

3 **Select the suitable image quality and recording size with the SCROLL button(③), the SELECT button(④) without LCD monitor.**

Refer to the page 28 ~ 35 about the shot mode using the LCD panel.

TAKING PHOTOS

Reference

If there is insufficient memory available.

- The [FULL] mark is blinked on the LCD panel.
- If you press halfway the shutter button for the shot when LCD monitor is on, the following message is displayed.

CARD IS FULL!

INSERT
NEW CARD

- If you want to use the LCD monitor, simply press the LCD button.
- If the beep is on, the card capacity short warning sounds (beep-beep-).
- To optimise the amount of memory on the camera, replace the memory card or delete unnecessary images stored on the memory card.

4 Set up the picture function by using the LCD panel and the menu screen on the LCD monitor. Refer to the page 37 ~68 about the selecting the shooting function using the menu screen on the LCD monitor.

5 Decide the picture composition that you want to achieve by using the optical viewfinder or the LCD monitor. In macro shot mode, you should compose your picture composition using the LCD monitor.

Note

Extensive use of the LCD monitor to view the potential picture will drain the batteries in a short period of time. To safeguard against this, please use the optical viewfinder.

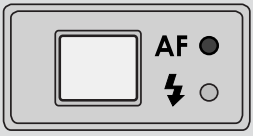
6 **When taking pictures, squeeze the shutter button gently to avoid camera shake.**

- If you press the shutter button down halfway, the autofocus will be activated and the status of the flash will show.
- If you press the shutter button down fully, the picture will be taken and the data regarding the picture will be stored.

TAKING PHOTOS

Reference

LED status is situated next to the viewfinder.



- Half press the shutter button, if the camera is in focus, the green LED will light up.
- The red LED indicates the flash mode.
- The red LED light flashes it means that the flash is charging.
- When an image has been stored onto the memory card, the green lamp flashes slowly. When the image data has been stored, the green LED light will go out. After the green LED light has gone out, you can resume taking pictures.

Note

- Under certain conditions the auto focus system may not perform as expected.
  - When photographing an object that has little contrast.
  - If the subject is highly reflective or shiny.
  - If the subject is moving at high speed.
  - When there is an object that has only horizontal lines or a thin object within the autofocus range.
  - If taking near and far objects at the same time within autofocus mark range.
  - When there is strong reflected light, or when the background is very bright.
- When it is dark on macro shot mode, shooting is dissuaded because no clear picture can be taken, and the Autofocus control will not work.
- If it gets dark in normal shot mode, zoom range is limited up to 1.6X. If the illuminance is less than 5.6Lv, the focus range is fixed to 1.4m, so the object only between 1.0~2.2m will be captured clearly.
- Warning of hand shaking
  - Push the shutter button about a half in flash off mode and if a red lamp flickers fast, it is a warning of hand shaking. In this case, use a tripod or change the mode into flash shot mode.
- Backlight compensated shot
  - Since the image can be shown dark if you take it facing the sun, please use the exposure compensation(refer to page 50) or press the ENTER/ ( ) button after the LCD monitor is on and then the indicator is on. When you shot under this condition, the exposure is corrected because the center waited metering of the object is shot with the side light.

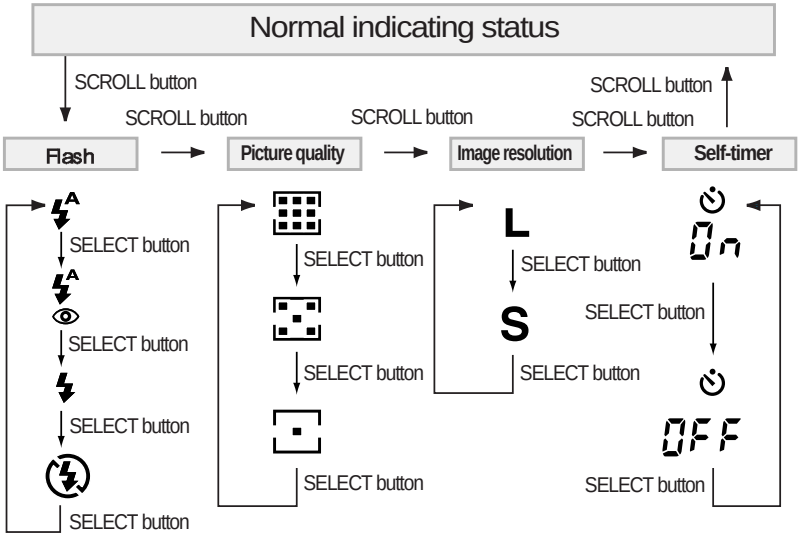
SETTING UP SHOOTING FUNCTION

Setting up the shooting function by using the LCD panel.

Using the LCD panel indicator set mode, you can set the following:

(Flash / Picture quality / Recording size / Self-timer function setting)

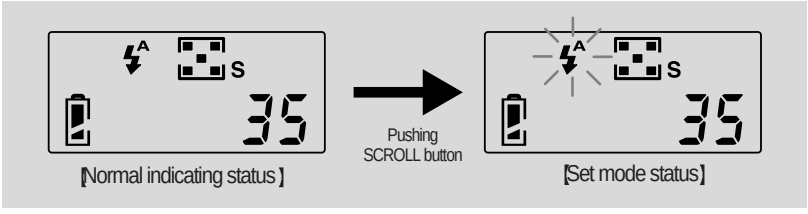
- The SCROLL button allows you to select certain features which will flash when available for selection.
- Using the SELECT button allows you to set that particular function as you wish.
  (The selected detail function indicator blinks.)
- SELECT button doesn' t work in the LCD panel status.



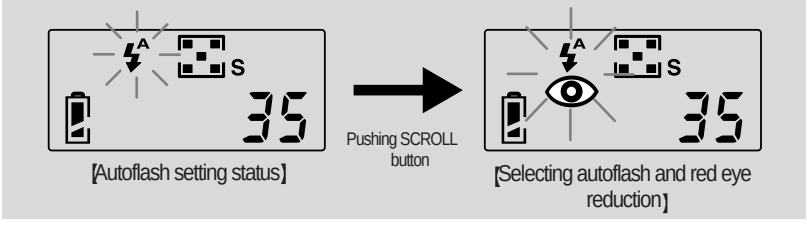
SETTING UP SHOOTING FUNCTION

Indication of set mode (ex. setting of flash mode)

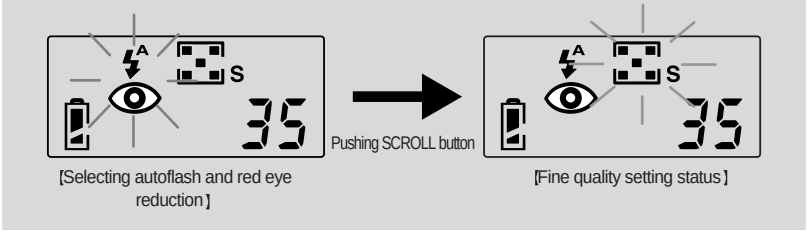
1 If a LCD panel status changes into set mode, the present function symbol of a selected function block flickers. (the present set autoflash symbol flickers as shown).



2 Whenever you push the SELECT button, a detailed function symbol of the selected function block flickers.



3 If you change the function block by using the SCROLL button, the previous function block will not flicker and the present set detail function block flickers.



SETTING UP SHOOTING FUNCTION

4 If you want to cancel the setup mode, press the SCROLL button until it changes into the LCD panel status. Also it can be canceled in the situations below.

Reference

- Cancel of LCD panel indicator SET mode.

  SET mode is canceled automatically when following these instructions.

  - When you press the zoom button(wide or tele)
  - When you press the shutter button or menu button.
  - When you operate the mode dial.
  - If the power goes off.

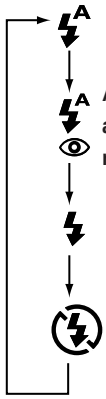
- The information on the external screen will be exactly the same as on the LCD monitor. (but, the self-timer can only is set on LCD panel.
- You cannot select the shooting function using the SCROLL button and the Select button while you set up the shooting function on the LCD monitor.

SETTING UP SHOOTING FUNCTION

Shooting Function details using LCD panel indicator

Select the Flash mode

- Four different flash modes can be selected using the SELECT button. The mode will be shown in the camera status LCD.
- Use the correct flash to suit the environment.
- Flash mode indicator



Auto Flash : If the object that is being photographed is too dark, the camera flash will work automatically.

Auto Flash and red-eye reduction : The flash will work automatically if there is not enough light. The problem of red eye will also be reduced.

Fill-in Flash : If the background behind the object is very bright, fill in flash will safeguard against that object appearing too dark in the photo. The result should be an acceptable lighting balance.

Flash off : The flash is disabled.

Reference

- Using the flash frequently will reduce the life of the batteries.
- Under normal operating conditions the charging time for the flash is normally within 7 seconds. If the batteries are weak, the charging time will be longer.

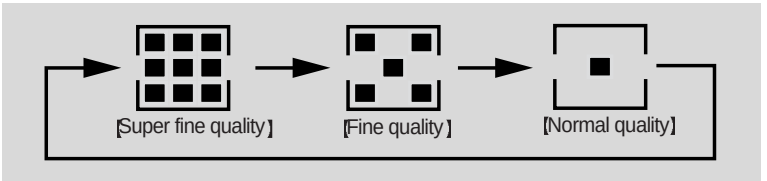
Note

Please photograph within the flash shot range(W: 0.2~3m. T:0.2~2m). The image is saturated when you take it with a strong reflector or at close range.

SETTING UP SHOOTING FUNCTION

Select the quality mode

· Using the SELECT button in the image quality mode, allows three types of image quality to be selected.(The selected image quality will flash.)



· The capacity of memory is determined by the quality of image that is selected. You can obtain three types of image quality.

· Select the appropriate image quality from the previous 3 modes.

Reference

· The image file is normally stored in *.jpg but selecting the highest image quality enables *.tif files to be used. Refer to page 42 for details of selecting the image file format.

· You can get the best quality shot with *.tif file which is for the professionals. However, The number of the shot is decreased and the time it is saved in the memory card is lengthened.

Select the Image resolution

· You can choose the file size (large or small) by using the select button to set (L) or (S).

· If the image resolution is large, the capacity for remaining pictures will decrease.

L : 1600 ×1200 pixels

S : 800 × 600 pixels

Reference

The picture quality and image resolution determines the number of images that can be shot. The image resolution stored in the memory card can not be changed once an image is captured, the size of the stored file cannot be altered

SETTING UP SHOOTING FUNCTION

Select the self-timer mode

- This function is used when the photographer would also like to be in the picture.
- Whenever you press the SELECT button on the self-timer mode set status, the (On/OFF) symbol flashes on the LCD panel.
- If you select (On), the indicator ( ) is displayed under the LCD panel status.
- It is taken after 10 seconds when you press the shutter button and after that, the self-timer is canceled.

Reference

- The self-timer LED indicator (red) will flash while the self-timer is shooting
  - 7 seconds after pressing the shutter button the LED will flash slowly in 1 second intervals. In the last 3 seconds the LED light will flash in 1/2 second intervals.
- If the sound function is in operation, the camera will beep in 1 second intervals to warn you when the picture will be taken.

SETTING UP SHOOTING FUNCTION

Other indicating items of LCD panel

Macro picture indicator

· If you select macro shot mode, a symbol( )will appear on the LCD panel.

· If you select the normal shot mode, the symbol( ) will disappear.

Battery status indicator

· The battery status symbol of the LCD panel is shown below.

: The batteries are fully charged

: Preparing a new battery

: There are no batteries capacity, Replace new batteries

Exposure compensation status mark

· If you select exposure compensation in setup menu mode on the LCD monitor, a symbol ( ) will appear on the LCD panel.

· Refer to the page 50 about exposure compensation status.

· If you select exposure compensation 0, the symbol ( ) will disappear

SETTING UP SHOOTING FUNCTION

Indicator for the number of the remaining shot, condition of the card and other information

According to the condition of the camera and memory card, it is shown on LCD panel as below

- **camera condition indicator**

(boot) Indicator on LCD panel blinks if you press the power button

- (boot) Indicator is canceled when the camera is ready for the operation.

- When the memory card is set up properly.

Number of available shots remaining is determined by the picture selected and image resolution.

- The maximum available pictures will be 9999(subject to memory size and picture quality).

- **When the memory card is not set up properly**

(CArd) symbol flashes on the location of available shot indicator.

- If there is no card, a beep will sound

- **When a memory card is set and there is short capacity**

symbol (FuLL) will flash on the location of available shot indicator.

- If the sound function is on, the card memory capacity short warning will sound

- **When you are saving the *.tif file form image in the memory card**

The (tIFF) indicator blinks on the LCD panel

- When the saving to the memory card is completed, the (tIFF) indicator is canceled.

- **Indicator for the camera error**

When the error occurs while the operation of the camera, the indicator (Err) on the photographing information indicator blinks. Refer to the page 70 about the detail information about the occurrence of the error.

Reference

- When the memory capacity is low, it will not be possible to take a picture.
- A warning will sound regarding low memory or no card, and will sound in the following events.
  - –When you have pressed the shutter button.
  - –When you have used mode dial.

SETTING UP SHOOTING FUNCTION

Digital Zoom

Reference

- Because this camera can support 2x digital zoom, if you use it with 3x optical zoom, it is possible to take picture of 6x zoom almost.
- Digital zoom is only possible when the LCD monitor is turned on.
- If you push zoom button T (TELE) in the state that 3x optical zoom is set up, digital zoom setting is possible.
- Digital zoom is divided into 2 grades like (DX 1.5, DX 2.0)and this grade is displayed on the left top of the LCD monitor according to zoom magnification.
- Working DIGITAL TELE
  - If you push zoom button T, software tele zooming is processed
  - If you finish pushing zoom button T, software tele zooming is ended.
  - If digital zoom is achieved to 2x zoom, digital zooming will be finished without operation of zoom button T.
- Working DIGITAL WIDE
  - If you push zoom button W, software wide zooming is processed.
  - If you finish pushing zoom button W, software wide zooming is ended.
  - If you continually push the W button on the state of digital zoom cancel, 3x optical zoom is also canceled.
- If you take pictures on the digital zoom mode, please wait until the saving is completed because it takes some time to save the taken image in the memory card.
- It is impossible to use the digital zoom shot in continuous shot, interval shot and moving image shot, and it is canceled.
- Digital zoom is automatically canceled and optical zoom rate is automatically changed with 1.6X.

SETTING UP SHOOTING FUNCTION

Setting up the shooting function by using the LCD monitor

If you press the MENU button on the state of power on, the menu status will be displayed on the LCD monitor.

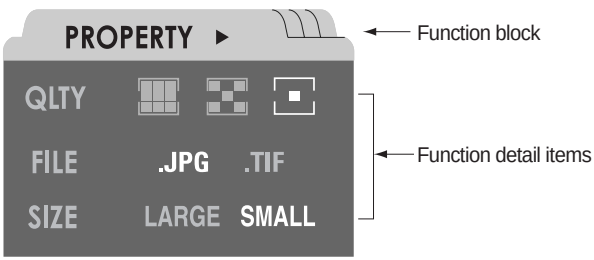
Reference

In the following cases, the setup menu mode is not available.

- When another button is pressed.
- While image data is being processed.
  (when the green LED beside viewfinder flashes)
- When there is no battery.

The setup menu mode indicator of the (Macro / Normal) mode status.

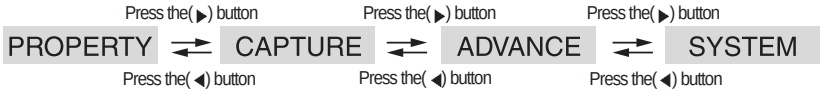
1 If you press the menu button, the menu screen will be displayed.



- The function block name is displayed on the top of the LCD monitor.
  The indicator (▶) means there is another function block.
- The function detail items are displayed in the middle of the LCD monitor.
  The bar cursor area can determine the status of the camera.
  In the above picture, the present function is set in a standard picture quality / JPEG file format/ SMALL size.

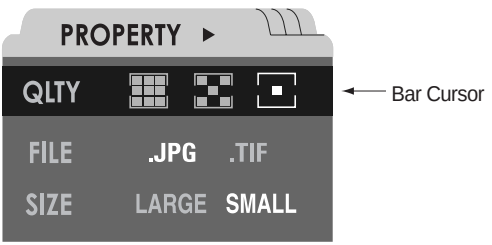
SETTING UP SHOOTING FUNCTION

2 The menu set mode is divided into 4 function blocks.
Select the function block by using the left/right directional button.



3 After selecting a function block, move the bar cursor into the function detail item that you want by using the up or down directional button.

4 When you press the direction buttons, the bar cursor will move accordingly.
The present status changes into the bar cursor marked function.



5 Change into the set status that you want repeating steps 2,3 and 4.

6 If you want to finish a set mode, press the MENU button again.
The menu screen will disappear and the camera image will be displayed on the LCD monitor. However, the moving images are displayed on the LCD monitor at normal shot mode only when you press the LCD button.

Reference

The operation of the direction buttons.

- The UP (▲) direction button - moves the bar cursor up.
- The DOWN (▼) direction button - moves the bar cursor down.
- The LEFT (◀) direction button - moves the bar cursor left.
- The RIGHT (▶) direction button - moves the bar cursor right.

SETTING UP SHOOTING FUNCTION

The following options are available on the LCD monitor by pressing the menu button

Setup menu mode composition of (Macro/Normal) shot mode

Function block	Function detail items	
PROPERTY	QLTY	
	FILE	.JPG .TIF
	SIZE	LARGE SMALL
CAPTURE	TYPE	INT.
	FLASH	
	STAMP	◀ OFF, DATE\TIME, DATE ▶
ADVANCE	W.B	AWB
	E.V	◀ -2.00 ~ +2.00 ▶
	D.ZOOM	ON OFF
SYSTEM	BEEP	ON OFF
	PWR OFF	◀ 0 ~ 10 ▶ MIN
	LCD BRT	◀ ■■■□□□□ ▶
	DATE/TIME	2000 . 1 . 1 00H 00M
	VIDEO	NTSC PAL

SETTING UP SHOOTING FUNCTION

1 PROPERTY

QLTY(Picture Quality) : Select a compression rate

FILE(File Format) : Select a format

SIZE(Image resolution) : Select a resolution

2 CAPTURE

TYPE(Capture Type)

- Single shot.
- Continuous shot : Allows you to continuously shoot individual pictures of a moving object.
- Interval shot : This mode takes pictures at set timed intervals.
- Moving image shot : It is saved as the moving images.

FLASH

There are 4 flash modes: auto/ auto and red-eye reduction / fill-in flash / flash off.

Select the most appropriate flash mode for the picture.

STAMP

You can put DATE/TIME on still image

You can select DATE / DATE&TIME / OFF on LCD monitor.

3 ADVANCE

This is for more special photographers who want to use advanced application modes.

W.B (White Balance)

Different lighting conditions will affect the way the color appears on the image. This control helps to achieve a more natural color.

E.V (Exposure Compensation)

You can select the exposure compensation.

D. ZOOM (Digital Zoom)

You can set up or cancel the digital zoom function

SETTING UP SHOOTING FUNCTION

4 SYSTEM

Sets the camera to your requirements.

BEEP : You can select whether to have the beep on or off.

PWR OFF(Auto power off) : The camera will automatically turn itself off if it is not used for a set period of time

LCD BRT (LCD bright) : Here you can control the brightness of the LCD monitor.

DATE/TIME : This function sets the date and time on the camera.

VIDEO (Video output) : you can choose from either (NTSC or PAL) video output.

Reference

Preserving settings

All shooting functions will be kept when the camera is switched off and on again.

Pre-set automatic setting are as follows.

Function block	Function detail items		
PROPERTY	FILE		JPEG File Format
CAPTURE	TYPE		Single (□)shot mode
	FLASH	Macro ( )	Flash off( )mode
		Normal ( )	Auto flash( )mode
ADVANCE	W.B		AWB mode
	E.V		0.00Ev status

Note

When pressing the shutter button while in the MENU setup mode, a picture will not be taken.

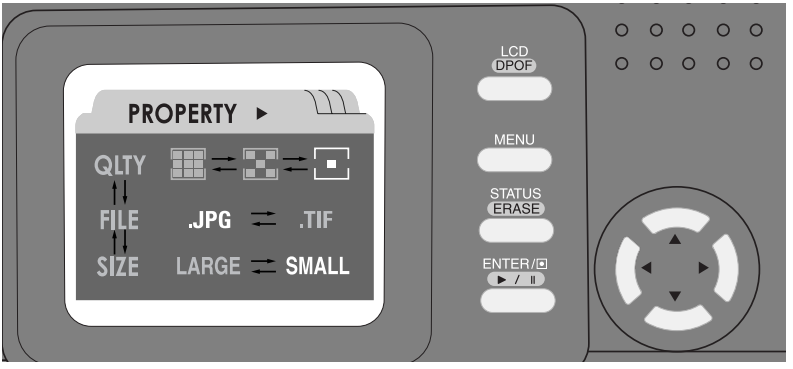
You will first need to press MENU again, to confirm your choice of shooting mode.

SETTING UP SHOOTING FUNCTION

The shooting functions in more detail

PROPERTY

Change the set status on the PROPERTY menu screen by using the 4 direction buttons.



By selecting QLTY, you can change the compression rate of the picture.

Picture quality is good in this order.

The file format observes DCF (The Design rule of Camera File format)

- If you select (▪) or (▪) image quality, the file format will default to *.jpg.
- If you select (▦) image quality, you can choose between *.jpg or *.tif file format.
  - The *.jpg file format is recommended in most cases.
  - Files saved in a Tif format are ideal for professional quality images. However, the amount of storage space will be reduced and the saving time will be lengthened in this mode.
  - When saving an image in *.tif format, the (TIFF) icon will appear on the LCD panel indicator

Image sizes are as follows.

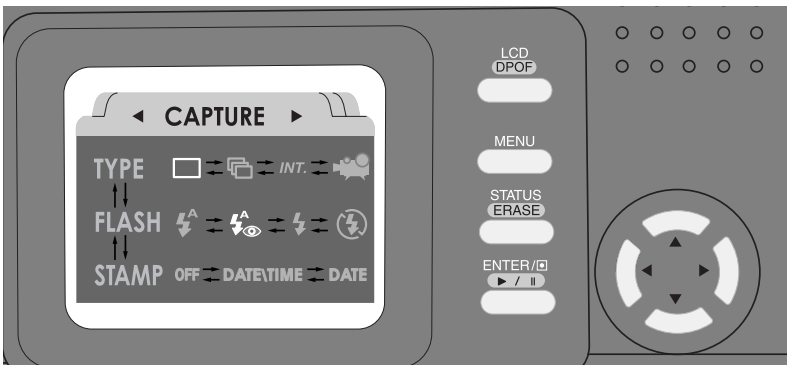
- Large is equivalent to a resolution of 1600 x 1200 pixels
- Small is equivalent to a resolution of 800 x 600 pixels

SETTING UP SHOOTING FUNCTION

CAPTURE

Change the set status on the CAPTURE menu screen by using the 4 direction buttons.

There are 4 choices for CAPTURE.



Single shooting: Press the shutter button to take a shot

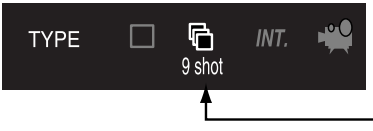
Reference

- If the Mode dial setting is altered after having selected Continuous, Interval or Moving image shooting modes, it will be set at Single shot mode.
- After power has been turned on, the setting will automatically be Single shooting mode

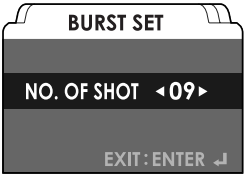
SETTING UP SHOOTING FUNCTION

Continuous shooting

- You can take a sequence of pictures of moving objects.
- When the continuous shooting is completed, it automatically returns to single shooting mode.



- If the ENTER button is pressed after selecting continuous shooting mode, the LCD monitor will display the BURST SET menu, where the amount of shots required can be selected, by using the direction buttons.



1 The maximum number of continuous shooting pictures possible, is determined by the selected image quality and image resolution.

LARGE			SMALL		
3±1	6±1	9±2	12±1	24±2	

2 By pressing the ENTER button in the BURST SET menu, you will be able to return to the CAPTURE menu screen. The number of shots chosen will then be displayed underneath the continuous shooting icon.

3 If you press the MENU button, the setup MENU screen is canceled and the camera is ready for the continuous shooting.

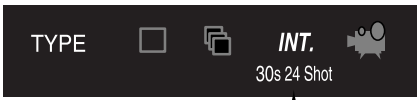
Reference

- The flash will not work when continuous shooting is selected.
- When *.tif mode has been selected, the continuous shooting mode does not work and you will only be able to use only the single shot mode.
- If you wish to cancel the continuous shooting while you are using it, press the POWER button.

SETTING UP SHOOTING FUNCTION

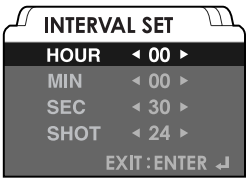
Interval shooting

- Setting the mode to Interval allows you to take pictures of moving objects over a period of time, such as flowers or a sunset.
- The power will automatically switch off after interval shooting is complete.



The interval time(30 seconds) and the number of the interval shots are displayed.

- If the ENTER button is pressed after selecting interval shooting, the LCD monitor will display the INTERVAL SET menu, where the interval time and the amount of shots can be selected by using the direction buttons.



1 In the INTERVAL SET menu, you will be able to scroll through the time and shot options by using the 4 direction buttons. By pressing the ENTER button again, the CAPTURE menu screen will return with the updated information. If you press the MENU button, the setup menu screen is canceled and the camera is ready for interval shooting.

2 The minimum interval shooting time is 30 seconds and the range of interval shots available is from 2 to 99.

3 The self timer lamp will flash rapidly in the last 5 seconds of interval shooting.

4 When the camera is getting ready for the interval shot, the LCD monitor goes off and the (Int) blinks on the LCD panel.

Reference

- The *.tif file of the highest picture quality does not support the interval shot.
- If you want to stop the interval shot while you are using it, turn the mode dial or press the POWER button

SETTING UP SHOOTING FUNCTION

Moving image shot

- You can shoot a moving image up to a maximum of 30 seconds.
- When a shot is completed, it is automatically set up as single shot mode.

Recording time of Moving image is marked.

- If you press the ENTER button after selecting Moving image shooting mode, the MOVIE SET screen will appear. You will be able to change the REC SIZE and REC TIME by using the direction buttons.

1 If you press the ENTER button after selecting the moving image, recording size & time with the 4 direction buttons on the MOVIE SET menu, it goes back to the setup MENU screen and the selected moving image recording time is displayed as updated. If you press the MENU button, the setup MENU screen is canceled and the camera is ready for the moving image shot.

2 If there is not enough space on the memory card, the moving image shot will be canceled.

3 If the time set for the moving image shot has not expired, shooting will continue until it has finished, even without the shutter button being pressed.

4 Image resolution, shooting time and file format of the moving image shots are shown below.

Image resolution	Shooting time	File Format
192 ×144 pixels	10 ~ 30 sec. (5sec. interval)	*.AVI
400 ×296 pixels		

Reference

- If you setup the moving image shot in dark places, the "LOW ILLUMINANCE" mark will appear on the LCD monitor. In this instance, the quality will not be good. It is better to take the photos in good light conditions.
- If you want to cancel the moving image shot while you are using it, press the POWER button.
- When you are shooting a moving image, the quality of the shot is set at (▣)(1/16). You can take pictures regardless of the selection of the picture quality on the PROPERTY function block.

SETTING UP SHOOTING FUNCTION

FLASH

- There are 4 flash modes.
- Select and use the proper flash mode according to the shooting conditions.

Auto flash : If an object or background is dark, a camera flash works automatically.

Auto flash and Red eye reduction : If an object or background is dark, the camera's flash will work automatically and will reduce the red eye effect by automatically using the red-eye reduction function.

Fill in flash : The flash will work when necessary, however if the background is too bright, the flash fading will come into operation and will also be controlled automatically. The brighter the background or subject is, the weaker the flash fading.

Flash off : The flash is disabled.

SETTING UP SHOOTING FUNCTION

STAMP

- For DATE/TIME to appear on a still image
- The DATE/Time function will only work in Single and Interval shooting mode.
  It will not work in Continuous and Moving Image modes.
- There are three options
  OFF : DATE/TIME won' be recorded on still images(Default)
  DATE\TIME : Both DATE / TIME is recorded on a still image
  DATE : Only the DATE is recorded on a still image
- DATE is indicated in the following order [year.month.day]
- TIME is indicated in the following order[hour : minute : second] and the hour digit counts up to 24.
- DATE/TIME will be displayed on the lower right hand side of image

<Selecting the DATE>

<Selecting the DATE/TIME>

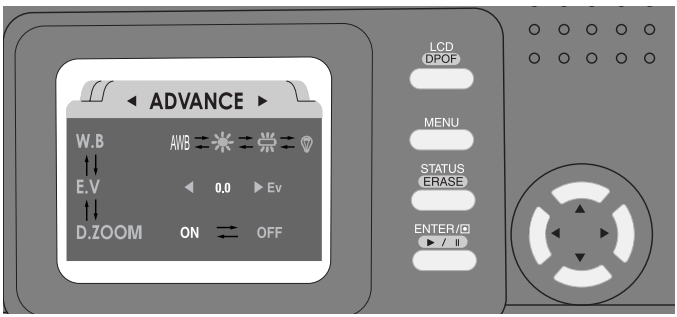
Reference

- The DATE that is set in DATE.TIME SET(refer to page 53) will be recorded on the still image.
- The setting is saved even if the camera power is off.

SETTING UP SHOOTING FUNCTION

ADVANCED

Change the set status by using the 4 direction buttons on the ADVANCE menu screen.



W.B (White Balance)

The color of the captured image may alter according to lighting conditions during image capture.
By using this function, you will be able to obtain more naturally colored images, depending on light conditions.

AWB Auto
: The camera automatically selects the optimum white balance depending on the conditions of the ambient lighting.

Sunlight
: This should be used to obtain shots in normal outdoor light conditions.

Fluorescent light
: This is suitable for indoor shooting under fluorescent light conditions.

Tungsten lamp
: This is suitable for indoor shooting with artificial or tungsten lighting.

SETTING UP SHOOTING FUNCTION

E.V

This camera will control the exposure value automatically and you can select exposure compensation.
Select the exposure value by using the left or right direction button after moving the cursor bar onto EV.
If you increase the exposure, you will obtain a brighter image.
If you decrease the exposure, you will obtain a darker image.

Reference

- The initial setting of the exposure compensation : 0.00EV
  - This camera controls the exposure value automatically.
- The range set for exposure compensation is : -2.00 ~ +2.00EV (0.25EV interval)
- The exposure compensation value that has been chosen will remain until the power is turned off. When you switch on the power again, the exposure compensation will automatically set itself to 0.00 EV.
- If you select the exposure compensation value, the exposure compensation( ) will show on the LCD panel.
- Be cautions when you use exposure compensation because the LCD monitor looks black and the exposure will be lacking if you use(-) exposure compensation. The LCD monitor looks white and saturation can occur if you use (+) exposure compensation.

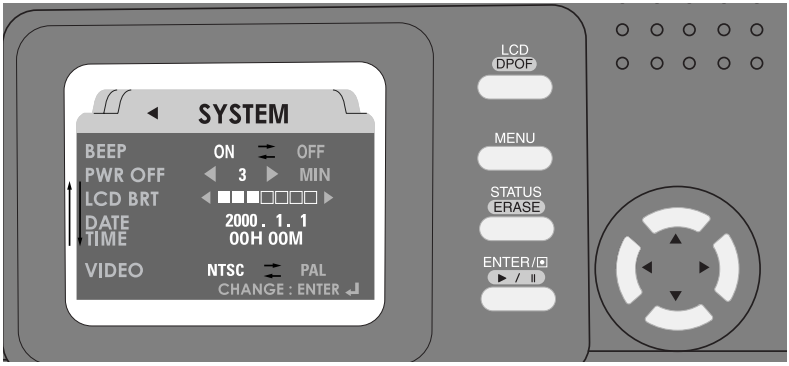
D.ZOOM

- If you select ON, the digital zoom function is selected and it remains as such regardless of the power ON/OFF setup.
  - Because this camera has a two times digital zoom, you can get a shot that has a six times zoom if you use it in conjunction with the three times optical.
  - Refer to page 36 for more detailed information on digital zoom shots.
- If you select OFF, the function of the digital zoom is canceled.

SETTING UP SHOOTING FUNCTION

SYSTEM

Change the set status in the SYSTEM menu screen by using the 4 direction buttons.



BEEP (buzzer sound)

If the beep is set to on, you can confirm the camera's working status according to the button sound. There will be a warning sound if a card disorder occurs and a continuous beep when the self-timer is counting.

The Buzzer will sound when any button is pressed.

When a button is pressed for an available mode, a beep will sound to signify that the camera is working.

-When you press a button, this buzzer will sound once.

- When you turn the mode dial, the buzzer will sound twice.

Self-timer Buzzer

For approximately the first 7 seconds the count will be heard at 1 second intervals.

Approximately during the remaining 3 seconds the count will be heard at 1/2 second intervals.

SETTING UP SHOOTING FUNCTION

Warning sound associated with the memory card

There are circumstances when the warning sound will be heard:

- When you take out the memory card.
- When there is no more available space for images on the memory card.
- Pushing the shutter button or turning the mode dial when the memory card has not been formatted or when there is no memory left on the memory card.

When you turn on the power

The POWER button sensor(beep~!) will sound regardless of the setup of buzzer operation.

PWR OFF (Auto power off)

This function switches the camera off after a set amount of time to prevent unnecessary battery drainage.

- Automatic power off time can be set at any 1 minute interval, from 0 to 10 minutes. If automatic power off is set to 0, this function will operate after 1 hour.
- However, the automatic power off does not work during the slide show and PC mode( ).

LCD BRT (LCD brightness adjustment)

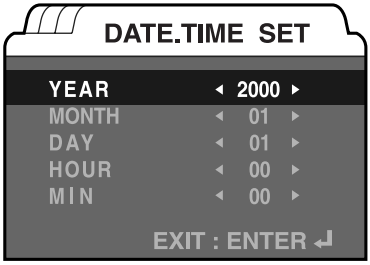
This function allows you to control the brightness of the LCD monitor.

You can choose from 7 levels of brightness.

SETTING UP SHOOTING FUNCTION

DATE/TIME

The date and time can be selected. This will allow you to put the date and time on your photos.



1 You will then be able to enter the date and time with the 4 direction buttons. Once you have completed this, press the ENTER button again and you will return to the [SYSTEM] menu screen. The date and time will now have been updated.

- Once ENTER button has been pressed, the seconds will start counting from 0.

2 This camera will automatically correct the date when a leap year occurs.

- 2000 ~ 2050 year (autocorrection of a leap year and month)

Note

- After removing the battery, the date and time function will remain active for about 1 hour.
- If the camera is left without a battery inserted for an hour or more, you will need to reset the date and time.

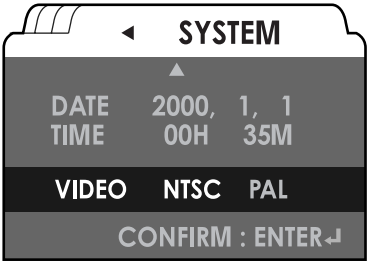
SETTING UP SHOOTING FUNCTION

VIDEO (Setting the video output)

You can set up the Video output signal from the camera in NTSC or PAL, depending on the type of machine (monitor or TV, etc.) to which the camera is connected.

Select what is best suited the Video type of the outer monitor. PAL mode can support only BDGH.

1 When you press the ENTER button after selecting the VIDEO function, the following screen is displayed on the LCD monitor.



2 Press the ENTER button after you select the Video output type that you require.

3 If you press the MENU button after setup, the setup MENU screen is canceled

PLAY MODE

Starting the play mode

Turning the mode dial to play mode (▶)will allow you to play any pictures or moving images stored on the memory card.

Play mode (▶)

When play mode is selected, the LCD panel will show(PLAY) as well as the battery status. No other icons will appear on the LCD panel.

Checking the battery

The indication for the condition of the batteries is the same as in shot mode. Please refer to the Indicator for 'checking the battery' on page 34.

Starting the play mode

1 After switching the camera on, turn the mode dial to play mode(▶).

2 When play mode is selected, the LCD panel will show (PLAY)and also the battery status. No other icons will appear on the LCD panel indicator.

3 The LCD monitor will automatically be switched on.

- The last image stored on the memory card will be displayed on the LCD monitor.
- You will not be able to switch the LCD monitor off manually while the camera is in play mode.

Reference

When the camera is reading the data on the memory card, the green LED next to the viewfinder will flash.

Once all the data has been read, the green LED will stop flashing.

PLAY MODE

Setting the play mode

1 **Press the MENU button**

If you press the MENU button with the power on, the setup menu mode is displayed.

→ You will now see the menu screen appeared on the LCD monitor.

Reference

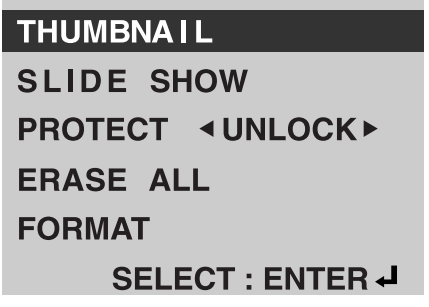
The following conditions will prevent you from entering the menu screen.

- When you are pressing any other button
- During processing time (e.g. Image saving/deleting)
- When the battery is exhausted

2 **How to use the setup menu mode while the LCD monitor is in play mode.**

(1) By pressing the MENU button, the setup menu screen will appear as indicated below

[Initial frame displayed]



(2) When pressing the up/down directional button, the chosen function will be highlighted on the menu screen.

(3) If you press the ENTER button after highlighting the function item, the chosen function is selected.

(4) If you press the MENU button on the initial menu screen, the setup menu mode will be canceled.

PLAY MODE

Play functions

The LCD monitor is as follows

Function items	THUMBNAIL	
	SLIDE SHOW	◀ 03 ▶ sec
	PROTECT	◀ UNLOCK ▶
	ERASE ALL	
	FORMAT	

1 **THUMBNAIL**
The thumbnail view allows you to view up to 9 images at a time.

2 **SLIDE SHOW**
Images can be displayed at pre-set intervals.

3 **PROTECT (LOCK/UNLOCK)**
This function prevents existing images being lost accidentally.
You should ensure that you lock important images

4 **ERASE ALL**
This will erase all images stored on the compact flash memory card.

5 **FORMAT**
This function initializes the compact flash memory card by formatting the data.
Initializing prepares the CF CARD for recording data.

Reference

A buzzer sound

- If the beep is turned on in the setup menu of a shot mode, and a relevant button is selected in play mode, the button being pressed will produce buzzer sounds.
- The sound will be heard when pressing the button once.
- The Buttons that button entering perceiving buzzer sounds.
  - –When you push POWER , MENU, ENTER, STATUS / ERASE buttons
  - –When you push the 4 direction buttons (UP/DOWN/LEFT/RIGHT)

DATE/TIME

- When RECORD mode I selected, DATE/TIME will be displayed on the below right side of the still image.

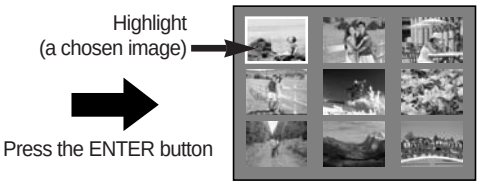
PLAY MODE

THUMBNAIL

This function allows you to view 9 images at the same time.

1 Press the ENTER button after selecting the THUMBNAIL option.
9 thumbnail screens will be marked out on the LCD monitor. The image displayed on the first frame is highlighted.

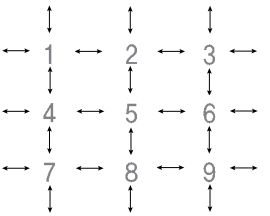
[1 image screen in play mode]



[Thumbnail play mode]

2 When you press the UP or DOWN button, the highlight sign moves up or down by one space and when you press the LEFT or RIGHT button, the highlight sign moves left or right by one space, and the image selected is displayed.

The moving order of the highlight function



3 Once you have highlighted an image in the thumbnail screen, pressing the ENTER button will show you that shot in full size.

Reference

When a moving image is played, it operates as follows by pressing the ▶/II button.

- When it is stopped : it begins to display the moving image.
- When it is displaying the image : it pauses while displaying the moving image.
- When it pauses to display the image : it continues to display the moving image

PLAY MODE

SLIDE SHOW

You can view each image at a set interval using the slide show function.

1 If you push the ENTER button, after selecting [SLIDE SHOW] by moving the cursor to it in the menu starting screen, SLIDE SHOW is executed.
The LCD monitor will give a time interval option between 1-10 seconds.
Use the left/right directional buttons to select the required interval (pre-set at 3 seconds).

2 Pressing the ▶/II button during the slide show will pause the show
And [=PAUSE=] will be displayed centrally, on the bottom of the still image.

3 When you press the ▶/II button again, the slide show will resume

4 To stop the slide show, press the MENU button twice.
Press the MENU button once to display the MENU screen. Pressing the MENU button again will make the MENU screen disappear.

Reference

The Slide Show function does not support the *.tif file format

PLAY MODE

PROTECT (LOCK/UNLOCK)

You can lock and unlock important images that have been taken

1 Move the cursor on [PROTECT] position on the beginning frame and select [LOCK or UNLOCK] with the LEFT (◀) / RIGHT(▶) button, and the image will be locked or unlocked.

If you select [PROTECT LOCK]with the LEFT/RIGHT button

: the unlocked image is locked

If you select [PROTECT UNLOCK] with the LEFT/RIGHT button

: the locked image is unlocked.

2 Cancel the setup menu mode by pressing the MENU button.

【LCD monitor indication system】

Lock mark

It will not be indicated when an image is unlocked

Reference

The locked image is protected on [ERASE (image 1 erased)] or [ERASE ALL(all images deleted)], but deleted on [FORMAT].

PLAY MODE

ERASE ALL

All image data saved in the compact flash memory card is to be erased.

1 If you push the ENTER button after moving the cursor into ERASE ALL in the menu screen, the message such as below appears on the LCD monitor.

2 Select YES or NO by pressing up/down button, and press ENTER button.

· When you select YES.

- All the images on the card will then be erased.

  The image counter will register no images. Locked images will not be deleted.

Lamp status when using the ERASE ALL function.

While images are being erased, the red LED will remain illuminated.

The green LED will flash to indicate that all images have been erased.

· When you select NO

- The menu screen returns and ERASE ALL on the screen is highlighted.

  The setup menu mode is canceled if you press the MENU button.

PLAY MODE

Note

Erasing images will clear all information on the memory card(except locked images). You must transfer any image files that you want to save to alternative media before erasing.

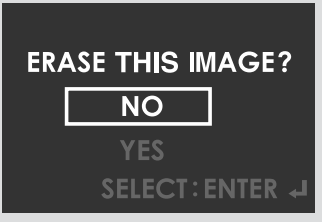
Reference

Erasing on image

Only on image is deleted out of images stored in a compact flash memory card.

1. Select the image that you want to erase.

2. If you push STATUS / ERASE button, the message such as that shown below appears on the LCD monitor



3. After moving the cursor into YES or NO with the UP and DOWN button, push the ENTER button. The action will be executed.

· After selecting YES, when you push the ENTER button

- After erasing an image stored in a memory card, the next stored image is displayed on the LCD monitor.

· After selecting NO, when you push ENTER button

- The screen comes back to the chosen image screen.

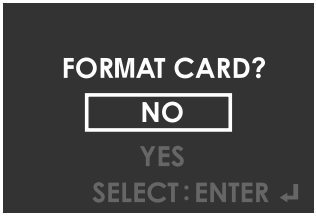
PLAY MODE

FORMAT

This function is for formatting a compact flash memory card.

Formatting the card allows data to be stored on it.

1 After moving the bar cursor to FORMAT, press ENTER button.
Then the following message will appear on the LCD monitor.



2 Move the bar cursor into YES or NO with the UP or DOWN directional button. Then press the ENTER button for the action to be executed.

· After selecting YES, when you push ENTER button

- After formatting the memory card, a NO IMAGE message will appear on the LCD monitor

The LED symbol during formatting

The green LED on the top right of the viewfinder will flash until formatting is finished.

· After selecting NO, when you push the ENTER button

- The menu screen will return and FORMAT on the screen will be highlighted. The setup MENU mode is canceled if you press the MENU button.

PLAY MODE

Note

[ERASE ALL] function is for erasing only unlocked image files off a memory card. But [FORMAT] function is for deleting all data off a memory card

Reference

New cards cannot be used unless they are initialised.

- the compact flash memory card that is not initialized
- the compact flash memory card that a camera can't perceive.

Enlarging an image

· When viewing a single image on the LCD monitor, you can zoom in to enlarge a portion of the image. Simply press the zoom T(tele) button to enlarge the image.

· The scale of enlargement of the shooting image is as follows

- If recording size is large:1.5/2.0/3.0/4.0/5.0 times.
- If recording size is small:1.5~2.5 times (0.5times interval).

· When an image is enlarged, you may use the directional control to select a particular part of the enlarged image with the 4 direction buttons.

· Pressing the W(wide) button will reduce the level of enlargement.

· You can determine the extended position of the image by the indicator on the upper left of the LCD monitor [digital extension magnification/no indication (the original image)].

PLAY MODE

DPOF (Digital Print Order Format)

You can print out the saved images in the compact flash memory card provided that you are set up with a digital photo printer, which supports DPOF.

1 If you press the [LCD / DPOF] button while in play mode, the below message appears on the LCD monitor.

2 Press the [LCD/ DPOF] button after selecting the number of prints you require. Use the LEFT or RIGHT directional button to change the print number.
The maximum print number is 9.

3 After removing the compact flash memory card and inserting it into a digital photo printer, you will be able to print out the preset images.

CONNECTION TO AN EXTERNAL MONITOR

Connection to an external monitor

· Connect the video connection terminal on the camera to an external monitor with a video cable. Set the camera to shot mode or play mode in order to view the Moving / Still images on the external monitor. The LCD monitor of camera will automatically switch off.

- The information on the external screen will be exactly the same as on the LCD monitor on the camera

Selecting the Video output type

· You can select an NTSC or PAL video output signal, depending on the external equipment

- Refer to the [VIDEO(Setting the video output)] on page 54 about selecting the video output from the camera

Reference

· When using a TV as an external monitor, you will need to select the external or AV channel.

· If there is noise (the picture is fuzzy) please refer to your TV manual for more information.

· If the picture is not in the center of the screen, please use the TV controls to center it.

PC MODE

Starting PC mode

- If you select the mode dial( ) position with the power on, the camera is transferred to the "PC mode" which can download the images saved in the memory card.
- Batteries will drain at a faster rate when using PC mode. We therefore recommended that you use the AC adapter

Indicators for the LCD panel on the PC mode( )

The condition of the battery and the letters (PC)are displayed on the LCD panel. The other indicators are off.

Checking batteries.

The way to decide the condition of the battery is the same as in shot mode.

Please refer to 'checking the battery' on page 34

PC MODE

Starting PC mode.

1 Connect the cable to both the PC and the USB or DIGITAL terminal on the camera. Refer to page 80 in 'software manual' about connecting to the PC.

2 Turn the power on and turn the mode dial to (PC).

3 The battery conditions and a character (PC) should appear on the LCD panel.

Note

- Ensure that the Camera Driver has been installed before connecting the camera to the PC via the USB cable. Refer to page 78 for more information about setting up the camera driver.
- To save batteries, it is recommended that you use an AC adaptor when connecting the camera to the computer

Function of PC mode

Downloading your images.

- Once you have downloaded the captured images to the hard disk, you can then edit and print them.

(1) Connect your camera to a computer by using the USB cable.

(2) Turn the Mode dial to PC mode and turn on the Power

(3) Select [My computer] and double click [Removable Disk] and the will images will be saved.
Copy or move the file to download from camera to PC.

(4) To edit image, run the bundled software [Adobe PhotoDeluxe]

- Refer to the software manual for more information about setting up and using software.

NOTE IN USING

Caution!

This camera is composed of very sophisticated parts. If exposed to any of the following unsuitable environmental conditions, the camera operations will be impaired. The camera should be kept away from.

- Severe changes in temperature and humidity.
- Dust and dirt.
- Direct sunlight or the inside of a vehicle in hot weather.
- Do not place the camera in an environment where there is high magnetism or excessive vibration.
- An area with high explosives or highly flammable materials.
- Pesticides, etc.

Never bring into contact with sand.

If sand gets into electronic devices such as Digital cameras, it can cause severe malfunctions. Please ensure that there is no contact with sand or similar particles.

Always be cautions not to expose to extremes in temperature

If the device is transferred from a cold place to a hot one or vice versa, condensation can be caused inside the device. If moisture gets into the camera, turn off the device and wait about 1 hour until all moisture is dispersed. Similarly, moisture build up can happen in the CF Card. If this happens, turn off the device and remove the CF Card, wait until the moisture has dispersed.

Caution with the Lens

- Avoid direct sunlight to lens. Direct sunlight can affect the CCD(Charge coupled device) by causing overheating and fading. Keep the lens cap closed when the camera is not in use.
- Please ensure that there is no pressure exerted onto the zoom lens and that it is not weighed down

If the Digital camera is not used for a long period, an electric discharge can occur. Please make sure the device, batteries, and CF Card are stored separately.

Maintenance

- To clear the Lens or the camera Status LCD, a soft brush should be used. If this does not work, lens-cleaning paper with lens cleaning fluid can be used.
- Clean the camera with a soft cloth
- The LCD monitor can be damaged very easily. Please take care that this does not get damaged

Do not attempt to disassemble or modify the device by yourself.

If the camera is exposed to an electric shock, it will turn itself off to protect the memory card

The flash may fire but this is purely due to static electricity.

NOTE IN USING

Warning indicator

The warning indicator displayed on the LCD panel indicator is as follows.

Warning indicator	Warning contents	Treatment
CArd	• No memory card. • The card cannot be read	• Insert the memory card. • Insert the memory card again. Turn the power off and turn on again.
FuLL	• There is no more space on the memory card	• Replace the card with the new one or use it after you erase the locked images.
Err	• The camera can't recognize the mode dial position	• Turn off the camera power and turn on again.
E00	• CF CARD format is different • The camera can't recognize the CF CARD	• If the same trouble is happened when the camera is turned off and on, change to recommended CF CARD
E05	• The camera indicates abnormal operation.	• Please turn the power off and turn it on again. If it should fail to clear, please contact a Samsung service center.
E07		
E0F		
E10		

BEFORE CONTACTING SERVICE CENTER

Before contacting service center (please check the following)

Symptom	Cause	Steps
The power is not turned on.	• Batteries need replacing. • AC Power Adapter is not connected.	• Replace batteries with new ones • Connect AC Power Adapter.
The power is turned off in use.	• Batteries need replacing • Camera has shut off automatically • The card is taken out before the image is saved in the memory card. • The adapter jack is not secured firmly.	• Replace batteries with new ones • Power on • Do not remove the memory card while you save the image. • Plug in the adapter jack again.
Battery power is drained quickly.	• External temperature is too cold. • The camera has old and new batteries	• Keep batteries at the correct temperature • Replace all batteries and insert new ones
Camera does not take pictures when pressing the Shutter button	• CF Card is not inserted • The memory card has not been initialized. • Memory card is almost full. • The power has not been switched on. • The batteries are weak. • The camera is not set to shot mode.	• After turning off the camera, insert card. • Initialize • Insert new Card from manufacturer • Power on. • Replace batteries with new ones • Set to shot mode.
The images are dim	• You select the wrong shot mode.	• Select the macro shot mode in case it is within 0.8m and select the normal shot mode in case it is over 0.8m.
The flash mode does not work.	• The camera is in flash off or macro mode.	• Select the other flash mode except flash off.
The wrong date/time is displayed.	• The wrong date/time is displayed or saved as the basic number.	• Select the appropriate date in MENU mode. Refer to the selecting DATE/TIME on the page 53

BEFORE CONTACTING SERVICE CENTER

Symptom	Cause	Steps
Camera fails to work by any button or switch	• Camera is not working properly.	• Remove the batteries and insert them again.
The card error indicator is on with the memory card inserted.	• The memory card has not been formatted	• Format the memory card and use it. Refer to the FORMAT procedure on the page 63
There is something wrong with the color of captured image	• There is any trouble with the W.B mode	• Set up the right one for each light source. Refer to W.B. on the page 49
The screen is too bright.	• There is excessive exposure	• Reset exposure compensation. Refer to page 50 E.V.
The screen is not very clear.	• The lens is smudged or dirty.	• You should clean the lens
The play screen is not displayed on the external Monitor.	• The video cable is not connected to the camera or external monitor • The memory card is not recording properly	• connect the cable properly
PC doesn't recognize Removable Disk when the camera is connected to PC with USB cable.	• Cable is not connected properly • Camera is off. • There is no battery or the adapter is not connected. • OS is not Window 98/98SE/2000/ME or PC is not equipped with a USB port. • USB driver didn't install. • The mode dial is not set to the PC connection mode.	• Check the connections • Turn on the camera • Load the new battery or check the adapter. • Install Windows 98/98SE/2000/ME to PC fitting up with a USB port. • Install bundle USB driver [USB Storage Driver] • Use the PC mode.

SPECIFICATIONS

Image Sensor	1/2.7″ CCD with 2.1 Mega pixels
Lens	f = 5.8~17.4mm (35mm film equivalent : 38~115mm) F2.8 ~ F4.9
Digital Zoom	Record mode : 2X, Play mode : 2.5X, 5X
Viewfinder	Real image optical zoom viewfinder
LCD Monitor	1.8″ color TFT LCD
Focusing	Auto focusing
Focusing Range	Normal : 0.8m ~ infinity Macro : 0.2 ~ 0.8m
Shutter	Mechanical and Electronic shutter
Shutter Speed	1/2 ~ 1/1,000 sec.
Exposure	Program AE / Exposure compensation ±2EV (0.25EV steps)
ISO Equivalent	100
Capture Type	Single / Continuous / Interval / Video Clip
White Balance	Auto / Manual (Daylight, Fluorescent, Tungsten)
Flash	Auto / Red-eye reduction / Fill-in flash / Flash off
Flash Range	WIDE : 0.2 ~ 3.0m, TELE : 0.2 ~ 2.0m
Self-timer	10 sec.
Date Imprinting	Date&Time / Date / Off (user selectable)
Video Clips	Size : 192x144, 400x296 Recording time : 10 ~ 30 sec. (5 sec. steps)
Storage	CompactFlash™ card
File Format	TIFF, JPEG (DCF compliant), DPOF, AVI (Motion JPEG) compliant
Image Resolution	Large : 1600 x 1200 pixels Small : 800 x 600 pixels
Storage Capacity (8MB)	Large - Tiff 1/JPG : Super fine 6±1, Fine 14±1, Normal 22±2 Small - Tiff 1/JPG : Super fine 28±2, Fine 59±3, Normal 87±6
Image Play	Single image / Thumbnails / Slide show
Interface	Digital output connector : USB Video output : NTSC / PAL (user selectable) DC power input connector : 6.0V
Power Source	4 × AA alkaline / Ni-MH batteries AC adapter (optional)
Dimensions(W×H×D)	114.5 × 70.7 × 56mm / 4.5 ×2.8 × 2.2in
Weight	255g / 8.99oz (without batteries & CF card)
Software	Camera driver (Windows 98/98SE/2000/ME, Mac OS 9.x) Adobe PhotoDeluxe Home Edition

※Specifications are subject to change without prior notice.

SOFTWARE MANUAL

Please ensure that you read the instruction manual carefully before using the camera

Software Notes

- The attached software is a USB Driver and image editing software for Windows.
- This software is copyright and is only licensed for one-time use with the camera. Under no circumstances should you or anyone else reproduce all or part of either the software or the instruction manual.
- In the unlikely event of a manufacturing fault, we will repair or exchange your camera. However, we cannot be held responsible for damage caused by inappropriate usage.
- Before reading this manual, you should have a basic knowledge of computers and O/S (Operating Systems).

Windows is the registered trademark in Microsoft of USA and other countries.

Macintosh, Mac OS and Quicktime is the registered trademark of Apple Computer, USA

System Requirements (2001)

For Windows

Computer : A personal computer with a processor more advanced than MMX Pentium 233 MHz.

Operating System : Windows 98/98SE/2000/ME

Memory : Minimum 32MB RAM

Others : USB port

140MB of available hard-disk space

16 bit color display adapter and compatible monitor with

a desktop area of 800 by 600 pixels

(24 bit color display adapter, True color display recommended)

For Macintosh

Computer : PowerMac G3, G4, G4 Cube, iMac, PowerBook G3, G4, iBook series with USB Port

Operating System : Mac OS 9.X , QuickTime 4.0 or later

Memory : Minimum 64MB RAM

BEFORE YOU SET UP THE SOFTWARE

Software Introduction

USB Storage Driver

USB Storage Driver is only compatible with Windows. There is no USB Storage Driver for MAC. MAC OS 9.X. comes with a USB storage driver USB Storage Driver makes digital camera as a CF CARD If the driver is installed, the images in camera can be copied or viewed directly.

Adobe PhotoDeluxe home edition.

This is the program that you can use to edit and save the still images you download from the camera.
This software is only compatible with Windows.

About USB

It is designed to meet external peripherals Plug and Play (PnP) specifications such as digital cameras, USB PC cameras, keyboards, scanners and printers.
The Windows 95 OSR2 had a set of basic USB drivers and the Pentium II motherboard supported the USB specification. USB gained a tremendous popularity as Windows 98 was released and recently i Mac has included a set of basic USB drivers

USB and Serial ports have the same theory, but USB is faster than the Serial port and USB are simpler to connect to peripherals.
The host allows USB device to communicate and transfer data at 12Mbps; in low speed mode, the host allows USB device to operate at 1.5Mbps. Furthermore, it allows 127 devices to run at the same time on the bus.
The PC will recognise peripherals when it is turned on.
Most computers have two USB ports. If you need to plug in more than two USB devices you do so by using a hub. A hub plugs into your USB port and provides more than one additional plug.

HOW TO SET UP THE SOFTWARE

How to set up the software

When you put the Driver CD-ROM provided with this camera into the CD-ROM drive, the following frame is automatically run.

1 Setting up the Camera Driver
Click 「Storage Driver」icon in the auto run frame.
Refer to page 77 ~ 78 for more information about Setting up the Camera Driver

2 Internet link
You can link to the Samsung homepage through the internet.
- http://www.samsungcamera.com : English
- http://www.zoomin.co.kr : Korean

Note

- Check the system requirements(74 page) before setting up the driver.

Reference

You need 5~10 seconds for running the automatic setup program according to the capability of the computer.
If the frame is not displayed even after this, run the [Windows Explorer] and select [Samsung.exe] in the CD-ROM Drive root directory.

SETTING UP USB DRIVER FOR WINDOWS

Setting up USB Driver (Win98SE)

To use this camera with a PC, first install the Camera Driver. After this has been done, the captured images in the camera can be moved to the PC and can be edited by a PC Photography program.

1 Click 「Storage Driver」 icon and InstallShield Wizard Window will open. Click 「Next」.

Add New Hardware Wizard
This wizard searches for new drivers for:
USB Device
A device driver is a software program that makes a hardware device work.
< Back
Next >
Cancel

2 [Storage Driver] installation is started.

Add New Hardware Wizard
What do you want Windows to do?
Search for the best driver for your device. (Recommended)
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

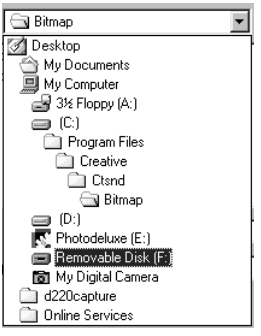
3 Installation is completed.
You have to check [Yes, I want to restart my computer now.] .

SETTING UP USB DRIVER FOR WINDOWS

4 After restarting, connect camera to PC with USB cable.

5 Turn the camera power on with PC mode, and Found New Hardware Wizard window will open.
Found New Hardware Wizard window will open twice as there are two different USB Driver. Don't close the Window when it is being processed.

6 USB Driver installation is completed.
[Removable Disk] will be displayed under [My computer]



SET UP THE EDITING SOFTWARE

Installation of Adobe PhotoDeluxe Home Edition

This software is provided only for Windows and guaranteed over Windows 95, 98 and Windows NT 4.0 with service Pack 3.

When you put the Driver CD-ROM provided with this camera into the CD-ROM drive, the autorun frame is automatically run.

Follow the instructions on screen.

Reference

If Autoplay does not appear automatically, double click on [Autoplay.exe] which is located in the root directory of [Samsung Digimax 220SE Application S/W CD - ROM].

If installations is finished normally, Autoplay is registered automatically into start menu program like the beside screen

CONNECT THE CAMERA

Joining USB connection terminal for Windows

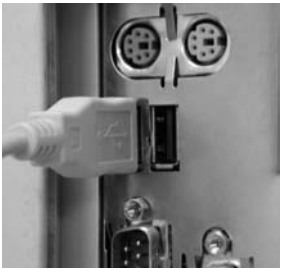
To download image, Windows 98 or later and USB port have to be set in your computer.

1 Connect the USB cable to the USB port on the computer

2 Connect the other end of the USB cable to the USB connection terminal of the camera.

3 Set the mode dial to( )

4 Switch the camera on.



REMOVABLE DISK

Removable Disk

To use this camera as the Removable Disk, install USB Driver.

Refer to page 77~78 for more information about USB Driver installation.

1 Before turning the camera power on, connect camera to PC with USB cable and turn the mode dial to PC mode.

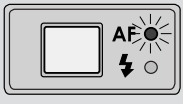
2 Click 「Removable Disk」 under [My computer].

3 Move to [100SSCAM] folder and select image file to download.

Note

Important information whilst using the Removable Disk

- We recommend that you should copy the images saved to the PC to view. If you open the image that is in Removable Disk directly, there may be disconnection.
- When you upload a image file to camera, do not use the same file name. Even though the file extension is different, only one of the same file name images are displayed as follow order [JPG → AVI → TIF]. And if the displayed file is deleted, all the same file name images are deleted.
- When you upload a file that is not taken by this camera to Removable Disk, ERROR FILE message will be displayed on LCD monitor in PLAY mode, and nothing is displayed in THUMBNAIL mode.
- Green lamp next to viewfinder will blink, when a file is transferred(copy or deletion) between PC and camera.
  Don't do any work like removing USB cable or turning mode dial until the lamp stop blinking. To remove the USB cable, use [Unplug or Eject Hardware] icon on the task bar.



REMOVABLE DISK

Note

In Windows 2000, please be careful as the following case can be happened.

1. when the image file in Removable Disk is deleted : green lamp will be blinked after about 15 second from file deletion is completed on the PC
2. transferring image file between PC and Removable Disk : there is the second green lamp blinking after about 15 ~ 20 second from the first green lamp blinking. Before the blinking is finished, the work is not completed.

Reference

When a movie that is downloaded can play back, do as follows.

[solution 1] Install JPEG_Decoder.

1. Insert Driver CD in CD-ROM Drive.
2. Open [Windows Explorer] and double click JPEG_Decorder folder in CD-ROM Drive folder
3. Select [Jpegcode.inf] and click right button of mouse.

   Then, click [Install] and the video compression code is automatically set up.

[solution 2]

Install QuickTime.

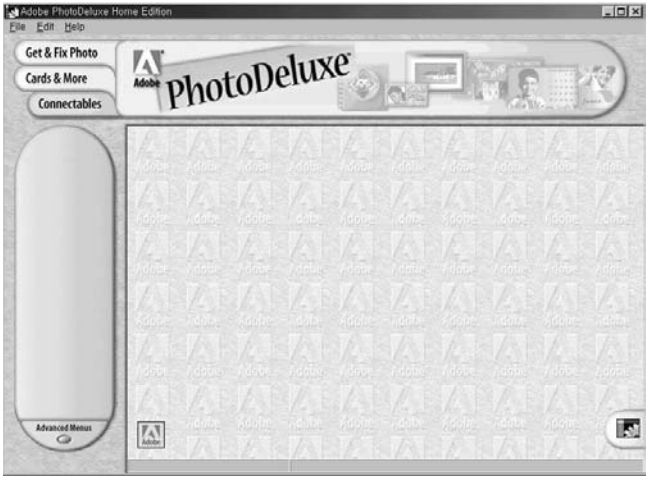
QuickTime is trademark of Apple Computer,Inc. can be downloaded from http://www.apple.com/quicktime/download for free.

EDITING SOFTWARE

How to open Adobe PhotoDeluxe Home Edition

This software is provided only for Windows.

To open Adobe PhotoDeluxe, click the start button at the left bottom of your monitor, then click programs, then Adobe, then PhotoDeluxe Home Edition and then double click on Adobe PhotoDeluxe Home Edition. PhotoDeluxe will now open.



Reference

When the image is dark, adjust the image at [Adjust quality Brightness & Contrast] and save it.

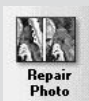
EDITING SOFTWARE

How to open Adobe PhotoDeluxe Home Edition

Get & Fix Photo

You can download pictures from various imaging products to Adobe PhotoDeluxe.

This will allow you to edit, store and print your pictures.

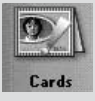
	– Get Photo Adobe PhotoDeluxe can call up the images shot by a camera, pictures stored in a PC, images from a scanner, the pictures downloaded from the internet, several images and so on.
	– Rotate & Size Adobe PhotoDeluxe allows you to rotate, flip or adjust the size of your images.
	– Adjust Quality The color and brightness of your images can be adjusted. You can even change your images into black and white.
	**–Repair Photo** The following imaging corrections are possible using Adobe Photo Deluxe. Removing red eye, Removal of dust/scratches, Retouch Face
	– Special Effects You can use the special effect function to liven up your images. Special features include; text adding, perspective, negative, neon effect, edge effects, collage etc

EDITING SOFTWARE

	– Save & Send You can store or alter the image format in PDF/ GIF/ JPEG. Once you have downloaded your images, you can also save them as a background image for Windows.
	– Print Various print forms are available such as several prints on one page and t-shirt prints which are reversed and when printed on special t-shirt paper can be ironed onto a t-shirt.

Cards & More

After downloading images, you can make cards, calendars, albums, signs, certificates etc.

	**– Cards** By using the opened images, you can make hello card , sports card and several kinds of cards.
	– Calendars Make your own calendar using your own images.
	– Pages & Certificates With Adobe PhotoDeluxe you can create albums, albums covers, certificates and letters with photos

EDITING SOFTWARE

Labels	**– Labels & Frames** A variety of labels and gift tags can be made
Frames & More	**– Frames & More** The photo frames function can be used to frame photos or as a frame in the T-shirt transfer.
PhotoParade	**– PhotoParade** You can make and execute PhotoParade. You can also obtain detailed information about Photoparade.
Save & Send	**– Save & Send** This is exactly the same as in the [Save & Send] function in [Get & Fix photo].
Print	**– Print** This is same with [Print] function of [Get & Fix photo].

Connectables

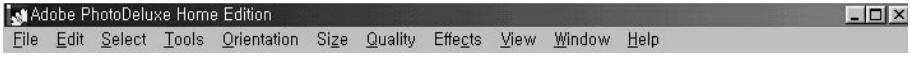
You can connect into the world of additional contents using the world wide web. There are images, letter forms, clip art, templates, plug-ins for special effects and PhotoDeluxe background design. You can download services and products by visiting other web sites related with PhotoDeluxe 3.0

EDITING SOFTWARE

	– Web Sharing You can obtain several pictures, clip art template through internet gallery provided in Adobe PhotoDeluxe.
	– Adobe Activities The Home Edition CD includes predesigned seasonal activities that can appear automatically throughout the year, if you install this option.
	– Extensis Activities You can obtain all the other activity information possible to extend.

Advanced Menus

If you have an experiences to edit pictures or want to do perfectly a creative and personal work, you can finish that work and strengthen the instructed activity by using advanced menus



If you ever want to edit pictures or personalize the picture, you will now be able to select the advanced menu. Click the [Advanced Menus] button

Reference

Click 「Help →Contents」on the File menu for more details about each function. Help will then be displayed

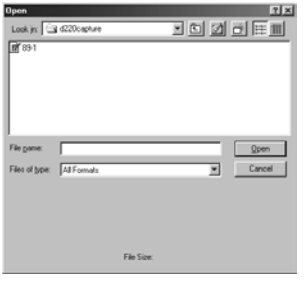
EDITING SOFTWARE

Acquiring Images

Acquiring images from the computer

1 Trace [Get & Fix Photo →Get Photo →Open File..], or trace [File →Open File] on menu bar.

2 Select image file on the Open window and click [Open].



3 Selected image will be displayed.
You can edit the image

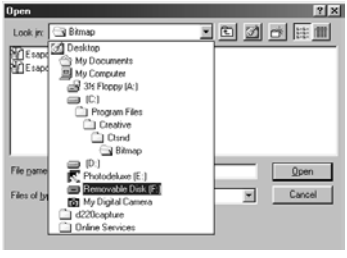
EDITING SOFTWARE

Acquiring Images

Acquiring Images from the camera

1 Before acquiring images from the camera, please check camera connection.
Trace [Get & Fix Photo →Get Photo →Open File] Or trace [File →Open File] in the menu bar. Refer to page 84

2 Open window will display to select image file.
Click [Look in :] to choose Removable Disk(:).



3 Move to sub directory to select image file and click [Open]

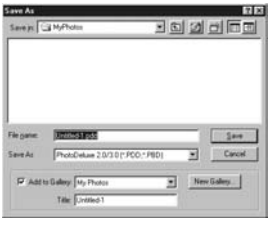
4 The image is displayed.
You can edit the image.

EDITING SOFTWARE

Saving image

1 To save the edited image, trace [File →Save]

2 Type file name and click [Save].
The default file extension name is .
PDD or .PBD(PhotoDeluxe file format)
Refer to page 91 to save the image as a different file format



Alternative saving method?
Trace [Get & Fix Photo→Save & Send→Save]

Note

When editing images, please ensure to save it as a new file under a new name. If this procedure is not followed, you may lose the original images. Otherwise, the original images will be distorted.

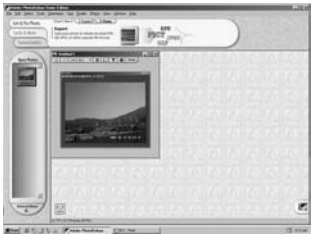
EDITING SOFTWARE

Saving image

If you want to save in other format (e.g. JPG), refer below. The default saving file format is PDD.

1 Trace [Get & Fix Photo →Export →File Format]

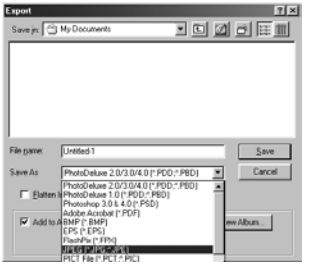
2 Click [1.Save & Send] and the 3rd screen will be displayed



3 Click [save] and the 4th Saving dialog box will be displayed.

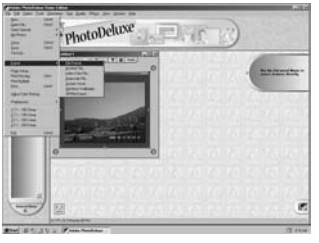
EDITING SOFTWARE

4 Click [Save as] and a lot of image file format list will be displayed.
Select file format you want.
The illustration is shown JPG file format.



5 Click [Save] and the image save as selected file format.

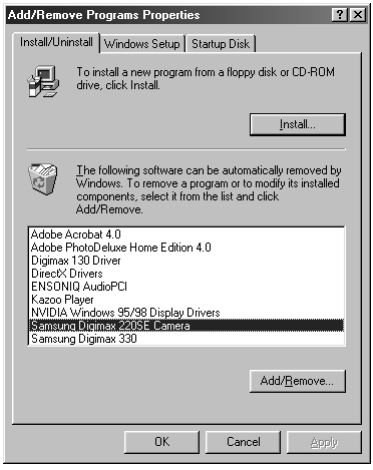
Alternative saming method?
Trace [File →Export →File Format] and save the image as different file format.



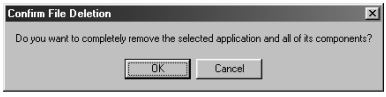
REMOVING USB DRIVER FOR WINDOWS

Removing USB Driver (Win 98)

1 Click [Add/Remove programs] in Controller.


Add/Remove Programs Properties
Install/Uninstall
Windows Setup
Startup Disk
To install a new program from a floppy disk or CD-ROM drive, click Install.
Install...
The following software can be automatically removed by Windows. To remove a program or to modify its installed components, select it from the list and click Add/Remove.
Adobe Acrobat 4.0
Adobe PhotoDeluxe Home Edition 4.0
Digimax 130 Driver
DirectX Drivers
ENSONIQ AudioPCI
Kazoo Player
NVIDIA Windows 95/98 Display Drivers
Samsung Digimax 220SE Camera
Samsung Digimax 330
Add/Remove...
OK
Cancel
Apply

2 After selecting [Samsung Digimax 220SE Camera], click [Add/Remove] and the following window will display. Click [YES] and USB Driver will be removed automatically.



REMOVING USB DRIVER FOR WINDOWS

Reference

If you are Windows 2000/ME user, please keep following order to remove USB Driver.

1. Connect PC to camera(PC mode, power on)
2. As mentioned above, remove [Samsung Digimax 220SE Camera] in [Add/Remove programs]
3. Click [Unplug or Eject Hardware] icon on the task bar.

Unplug or Eject Hardware
Select the device you want to unplug or eject, and then click Stop. When Windows notifies you that it is safe to do so unplug the device from your computer.
Hardware devices:
Samsung USB Mass Storage Device
Samsung USB Mass Storage Device at USB Device
Properties
Stop
Display device components
Show Unplug/Eject icon on the taskbar
Close

Click [Stop] on the [Unplug or Eject Hardware] window and click [Ok] on thenext window.

4. Click [System] on Control Panel

   Trace [Device Manager →Universal serial bus controller →Samsung USB Storage Device] and click right mouse button. Then the following window will display

   Click [Remove] to remove USB Driver

   Restart computer

CONNET THE CAMERA

Connecting Macintosh USB port for mac

USB port have to be in Macintosh or keyboard.

1 Connect the USB cable to the USB port on the Macintosh.

2 Connect the other end of the USB cable to the USB port of the camera

3 Set the mode dial( ).

4 Switch the camera on.

HOW TO INSTALL AND USE USB DRIVER FOR MAC

Setting up USB Driver for MAC

1 There is no USB Driver for MAC. But the Driver for MAC is automatically installed.

2 Check MAC OS.
This camera is available in MAC OS 9.X

3 Connect camera to PC(refer to page 95) and turn the camera power on.

4 A new icon will be displayed on the desktop after USB Driver installation.

Using USB Driver for MAC.

1 Double click a new icon on the desktop and the folder in the memory card will be displayed.

2 Select image file and copy or move it to MAC.

FAQ

About USB

• Please check the following if the USB connection malfunctions.

case 1 The camera power is off.

→ Turn the camera power on. We recommend using AC power adapter in PC connection mode. And if you use batteries, check the battery status indicator.

case 2 The mode dial is not set to PC mode.

→ Set the mode dial to PC mode. PC interfacing is only available in PC mode.

case 3 USB Driver is not set correctly.

→ Set USB Driver correctly. Refer to page 77 ~ 78.

case 4 The computer can't support USB interface.

→ Use a computer that supports USB interface.

FAQ

About USB

case 5 USB cable is not connected or using incorrect specification cable.
→Connect USB cable with correct specification.

case 6 CF CARD is not inserted or the camera can't recognize CF CARD.
→Turning the camera power off, insert CF CARD again.

case 7 Occasionally the computer recognizes USB as the other device.
→Turn the camera power off and remove USB cable. Connect USB cable again and turn the camera power of. Then the computer can recognize the camera correctly.

case 8 There is unexpected error during file transfer.
→Turn the camera power off and transfer the file again.

FAQ

About USB

How do I know my computer supports USB Interface

- Check the USB port in your computer or keyboard.
- Check [Universal serial bus controller] in Device Manager.

  Do as follow for checking **[Universal serial bus controller] Trace [start → setting → controller → system → Device Manager → Universal serial bus controller]**. In addition, there must be USB Host Controller and USB root hub under [Universal serial bus controller].
- Check OS version. USB Interface is available in Windows 98, 98SE, 2000, ME or later.

▶ In case that all the conditions that mentioned above are set, the computer can support USB interface.

About hardware

Booting is impossible when a new CF CARD is inserted.

The camera power is turned off continuously with BOOT message and E05 error message on the LCD panel when an unspecified memory card is inserted.

Some manufacturer's memory card is not recognized in this camera.

We recommend SanDisk memory card, if possible.

You should change the memory card with SanDisk memory card.

Error messages

When the error message display

If the error message display in the middle of camera operation, turn the camera power off and turn the camera power on again.

If the error message display, the camera power is turned off automatically.

If the error message display continuously, format the memory card in PLAY mode and insert again.

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